

FIG. 1

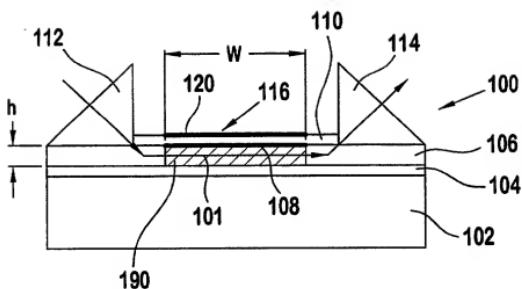


FIG. 2

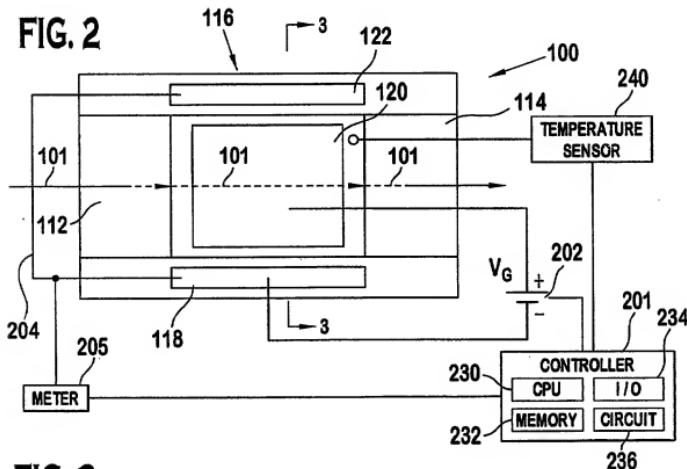


FIG. 3

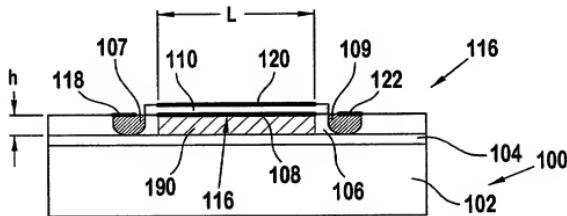


FIG. 4

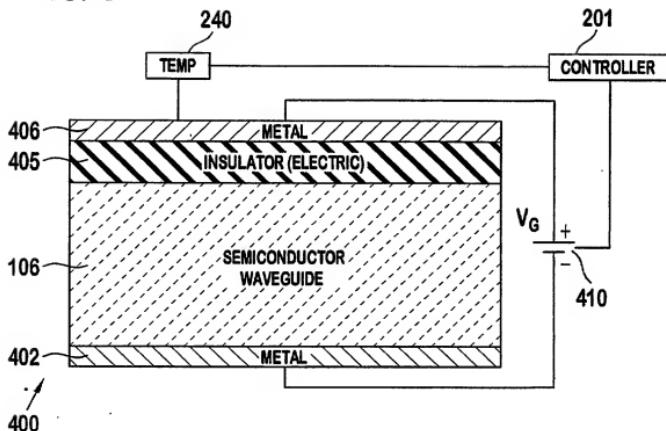


FIG. 5

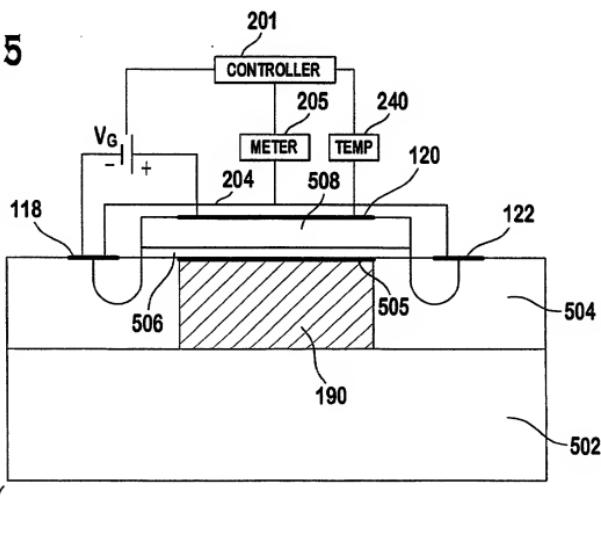


FIG. 6

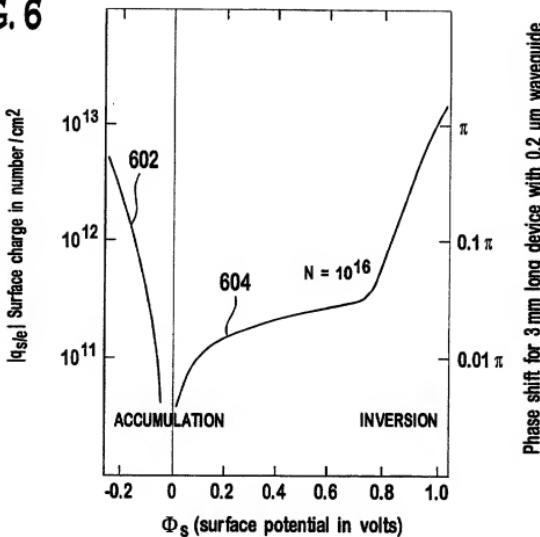
Phase shift for 3 mm long device with 0.2 μm waveguide

FIG. 7

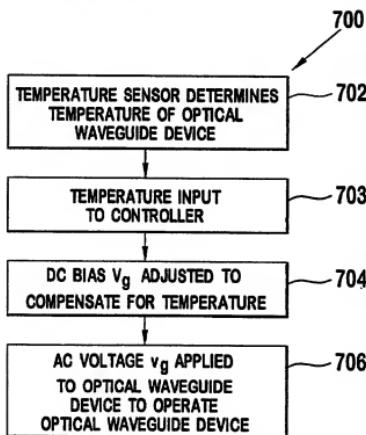


FIG. 8

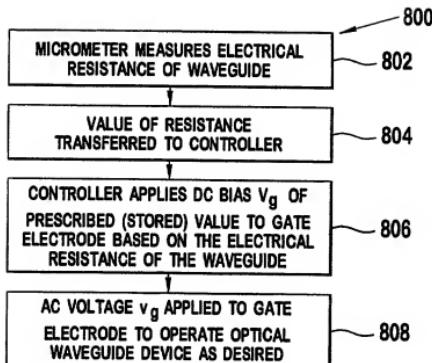


FIG. 9

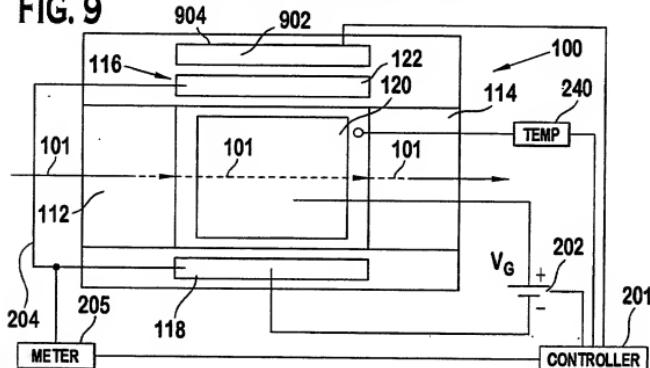


FIG. 10

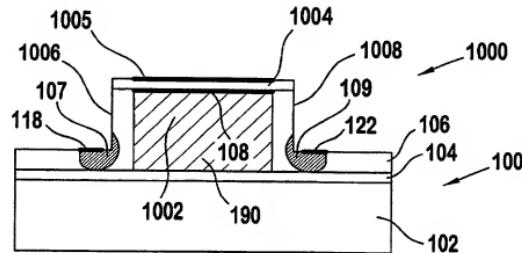


FIG. 11

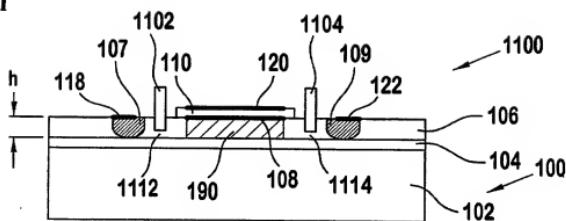


FIG. 12

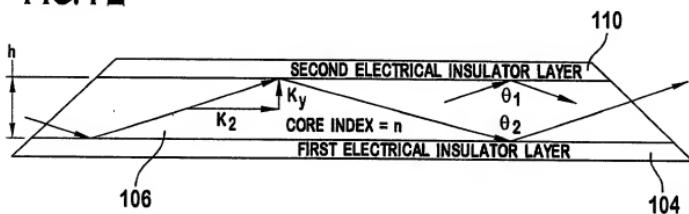


FIG. 13

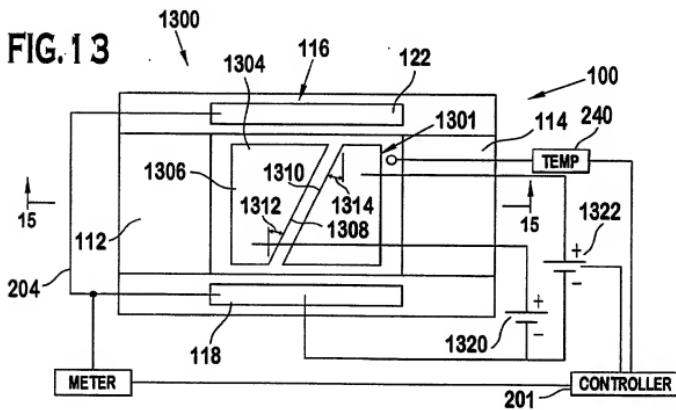
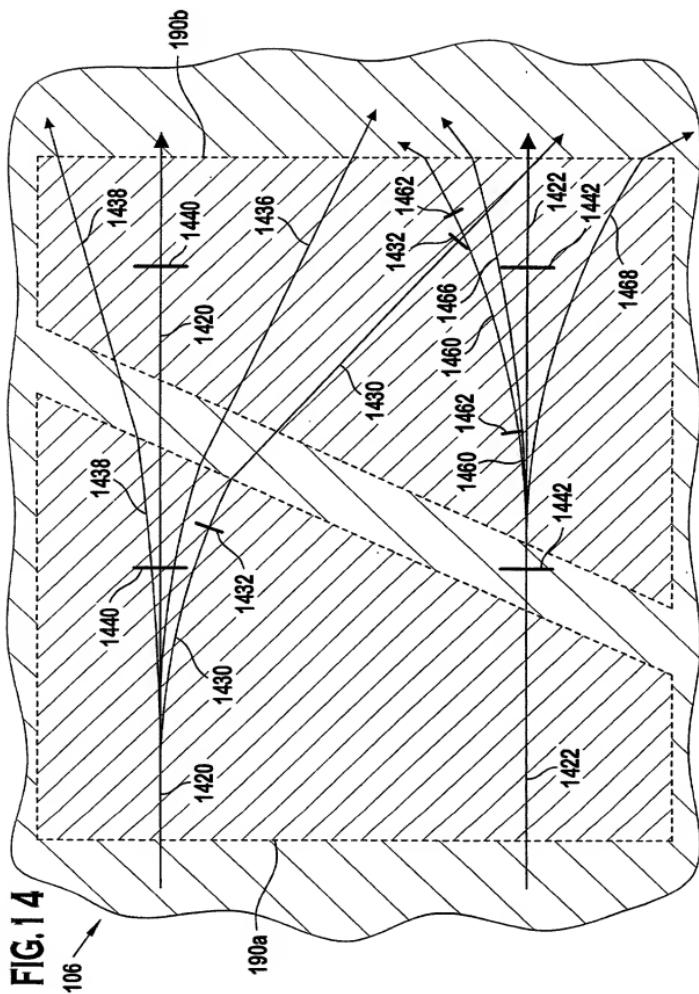


FIG. 14



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FIG. 15A

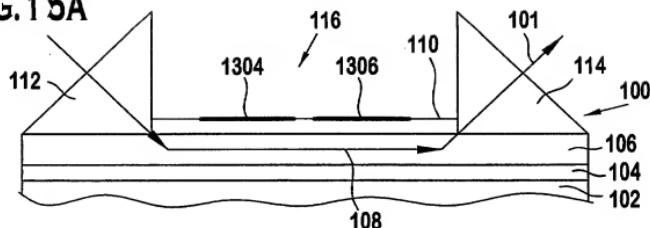


FIG. 15B

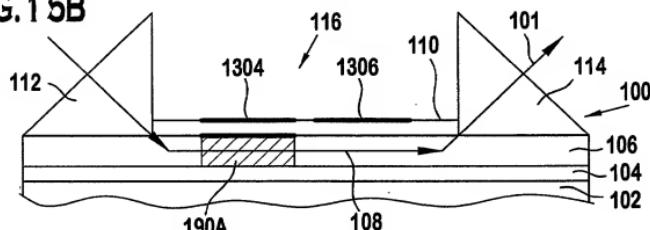


FIG. 15C

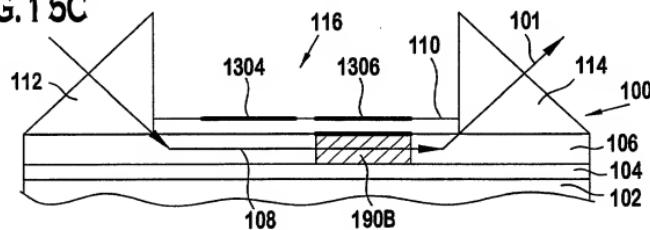


FIG. 15D

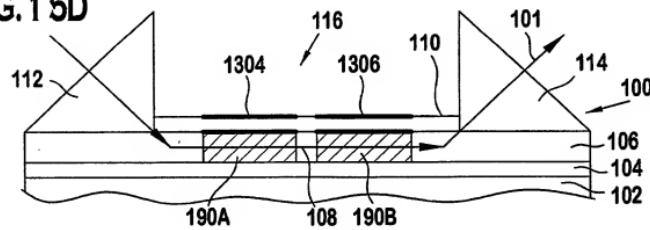


FIG. 16

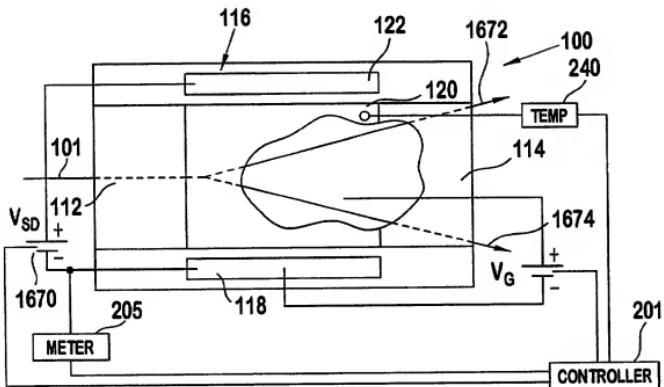


FIG. 17

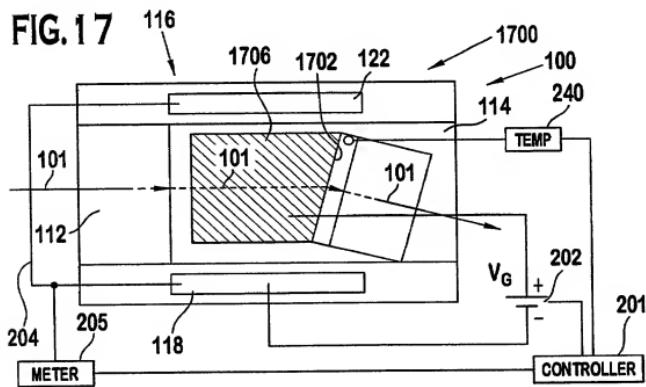


FIG. 18

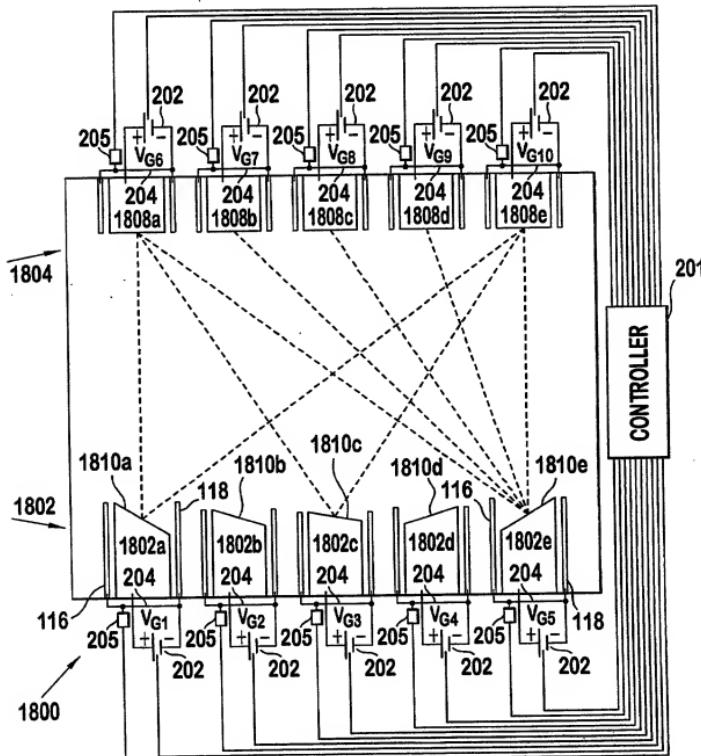


FIG. 19

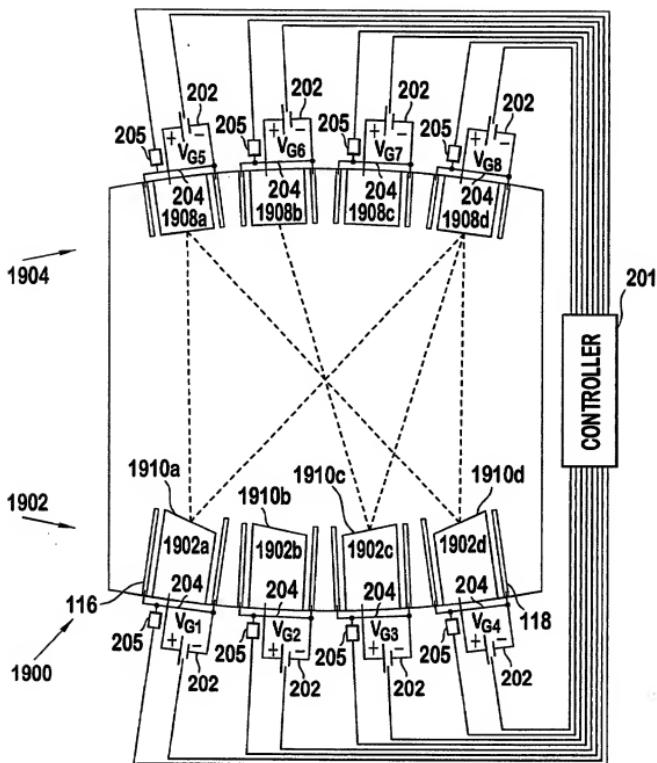
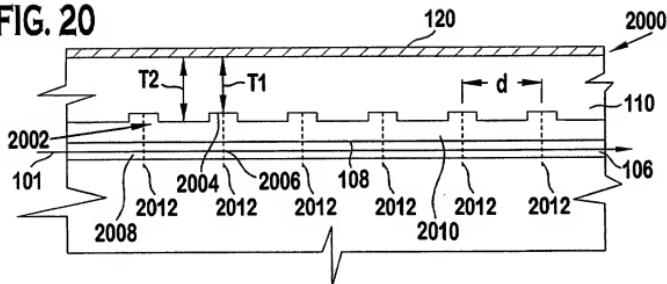
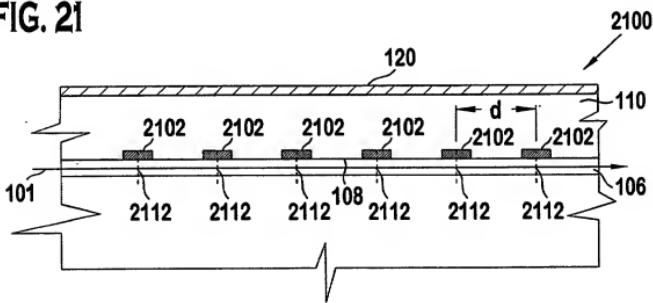
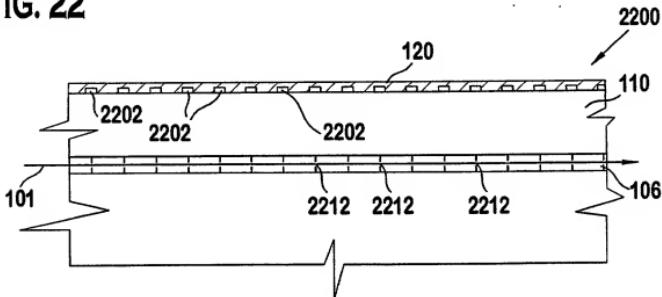


FIG. 20**FIG. 21****FIG. 22**

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FIG. 23

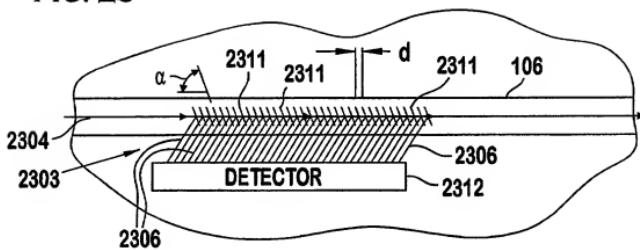
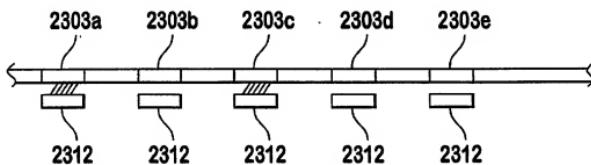


FIG. 24



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FIG. 25

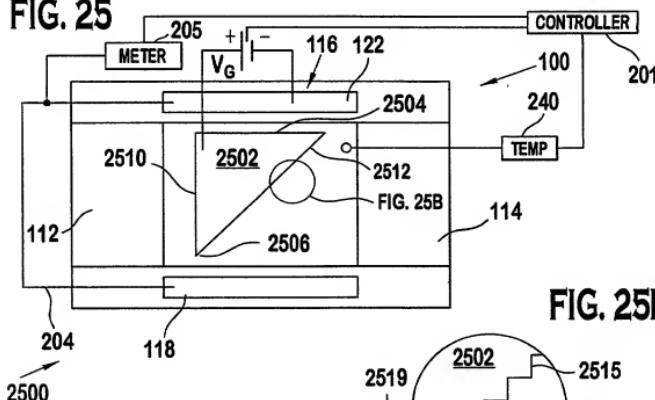


FIG. 25B

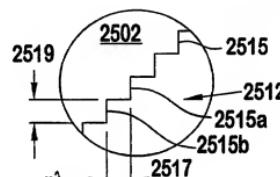


FIG. 26

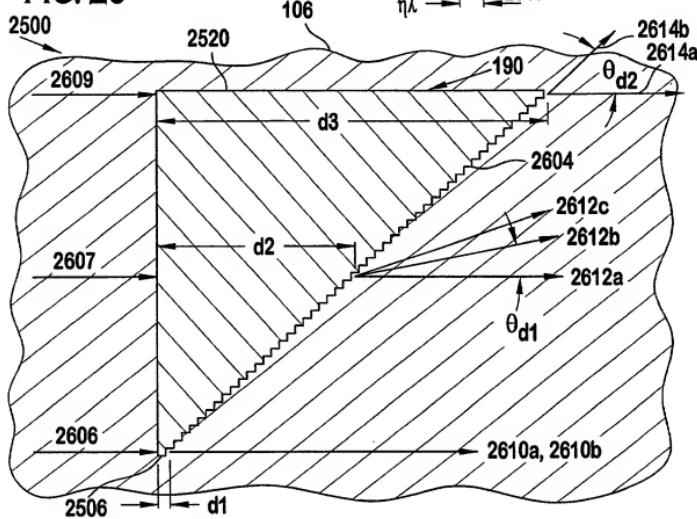


FIG. 27

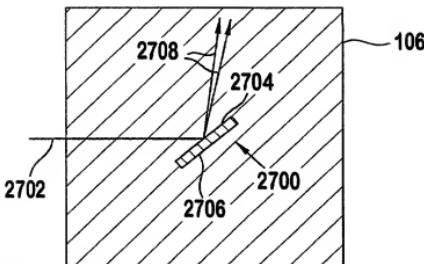


FIG. 28

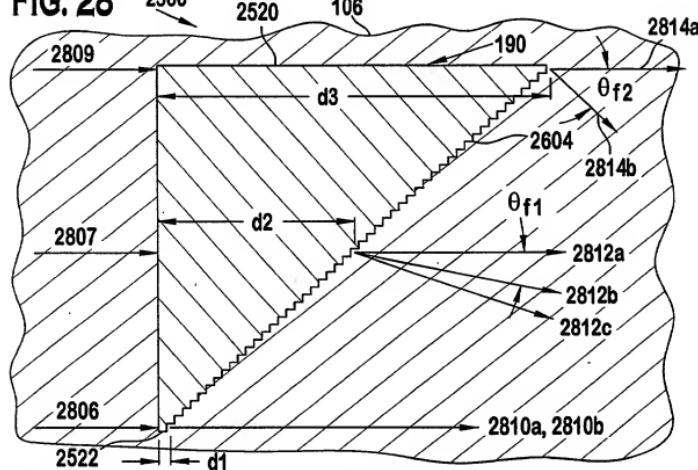


FIG. 29

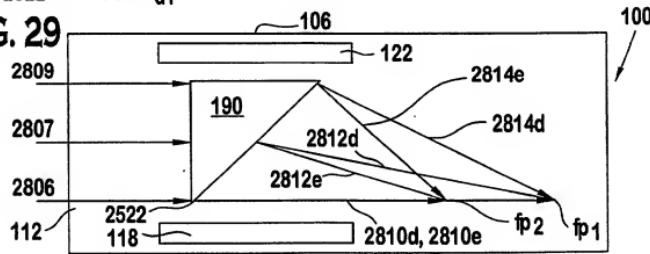


FIG. 30

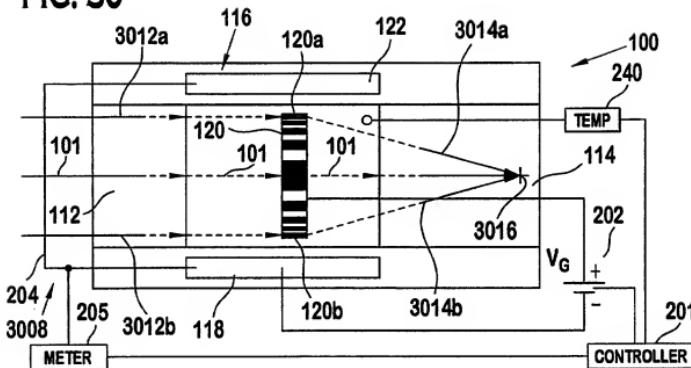


FIG. 30A

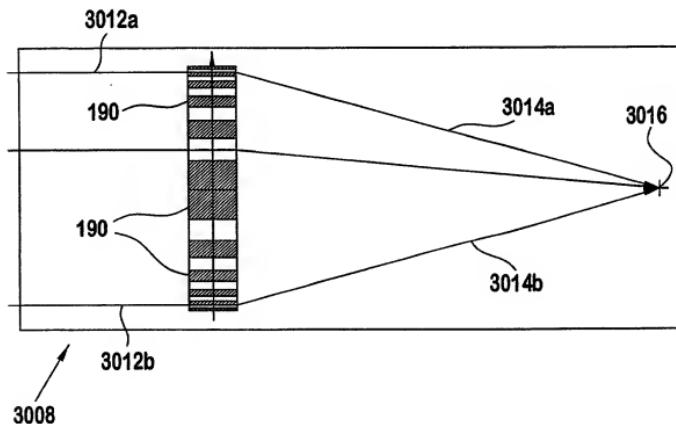


FIG. 31

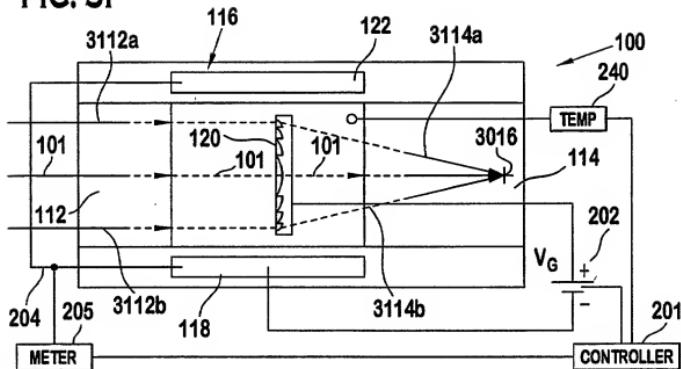
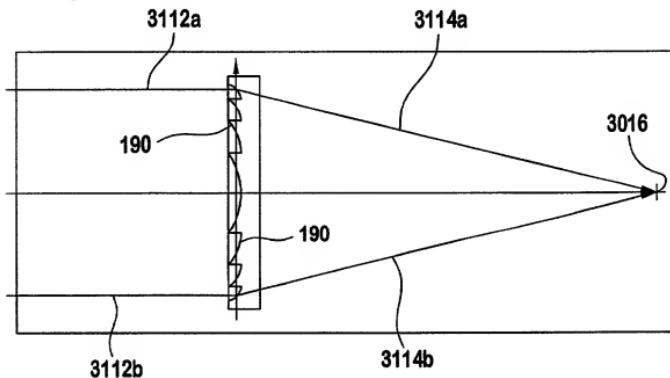


FIG. 31 A



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FIG. 32

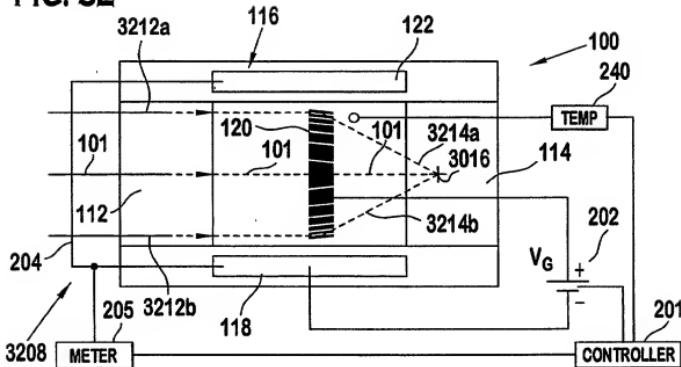
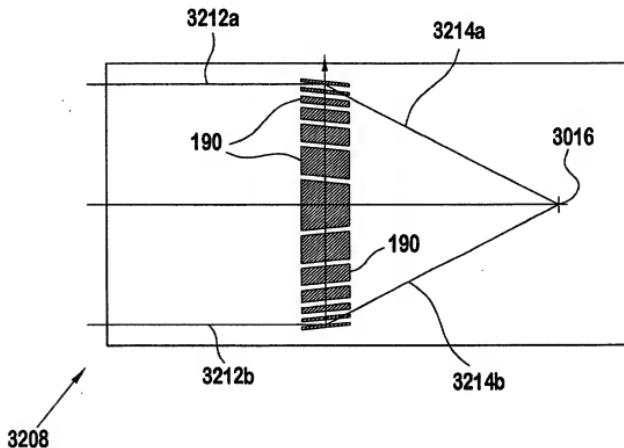


FIG. 32A



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FIG. 33

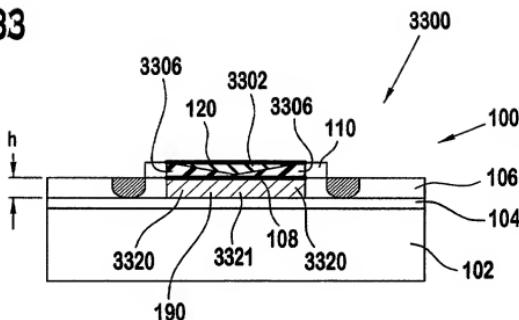


FIG. 34

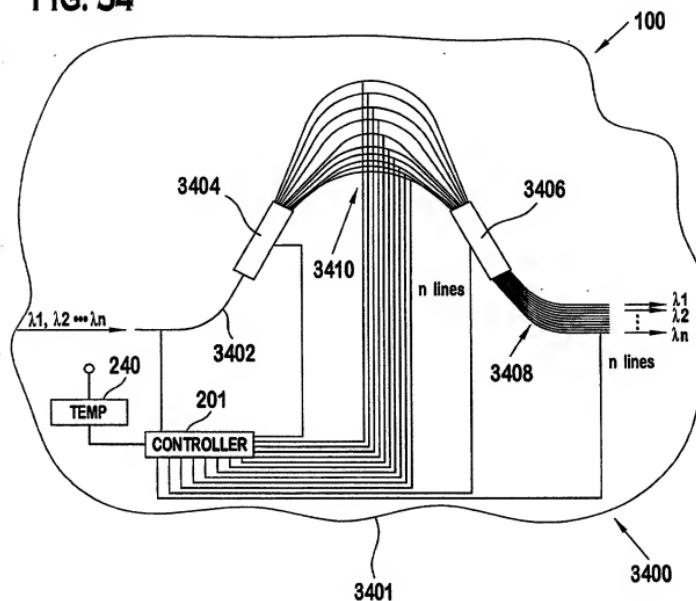


FIG. 35

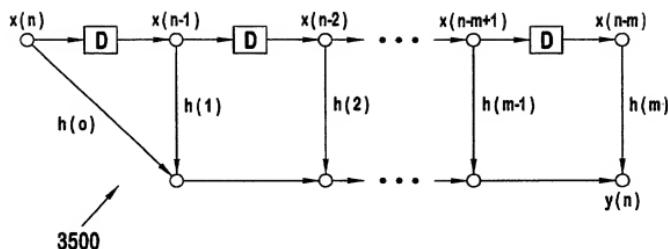
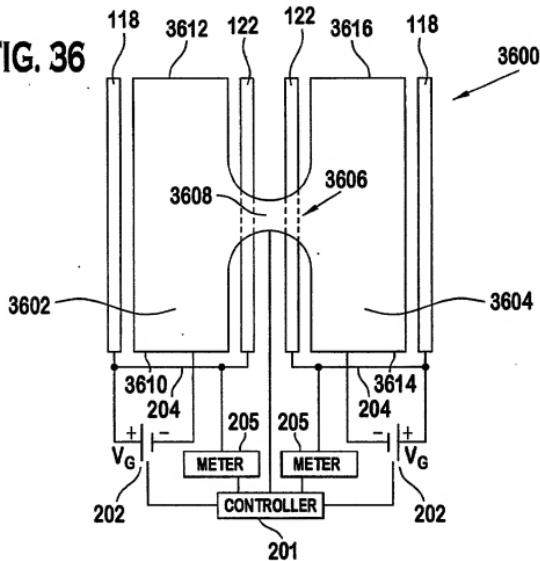


FIG. 36



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FIG. 37

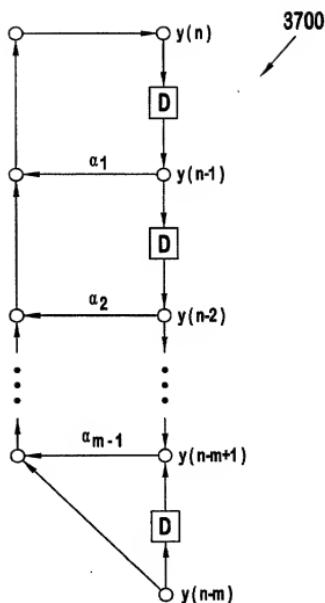


FIG. 38

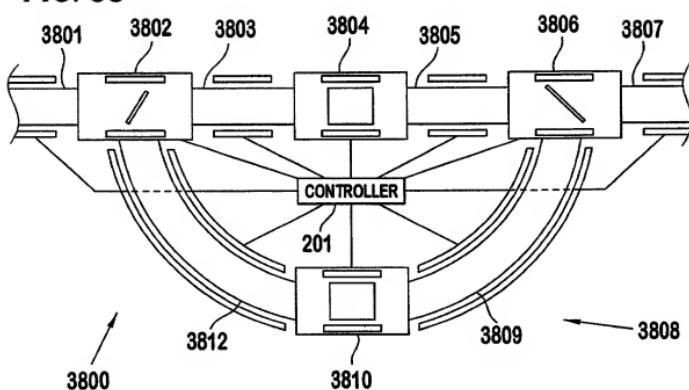


FIG. 39

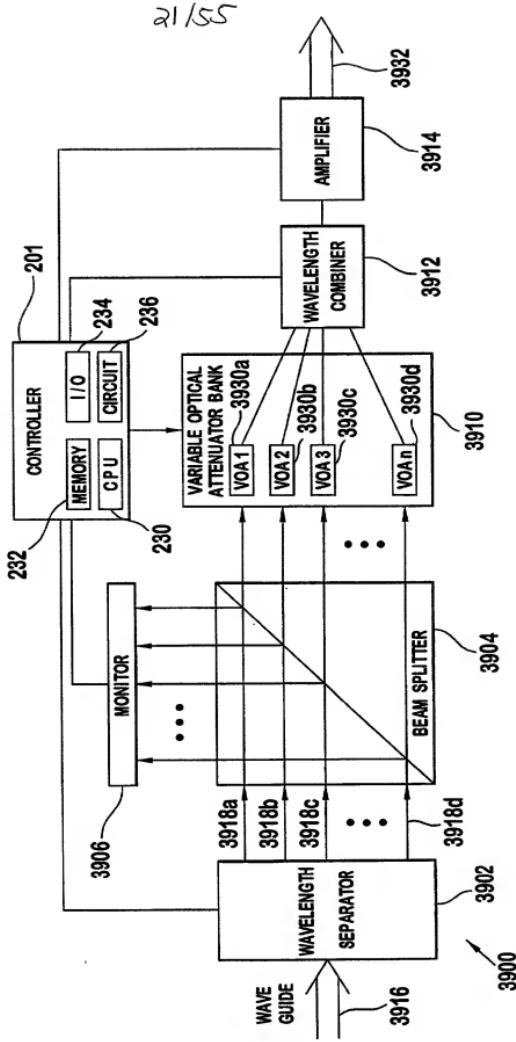


FIG. 40

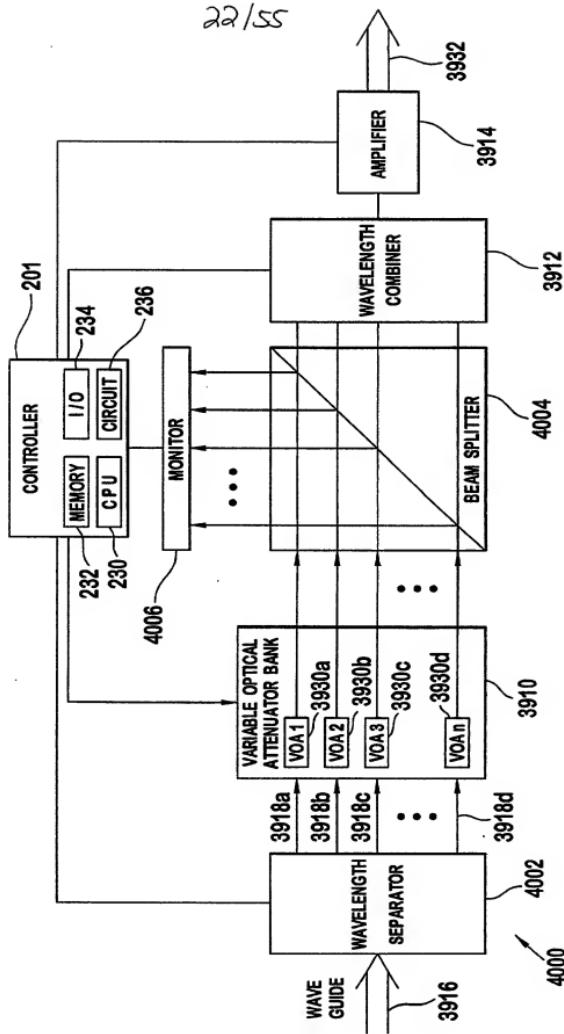


FIG. 4I

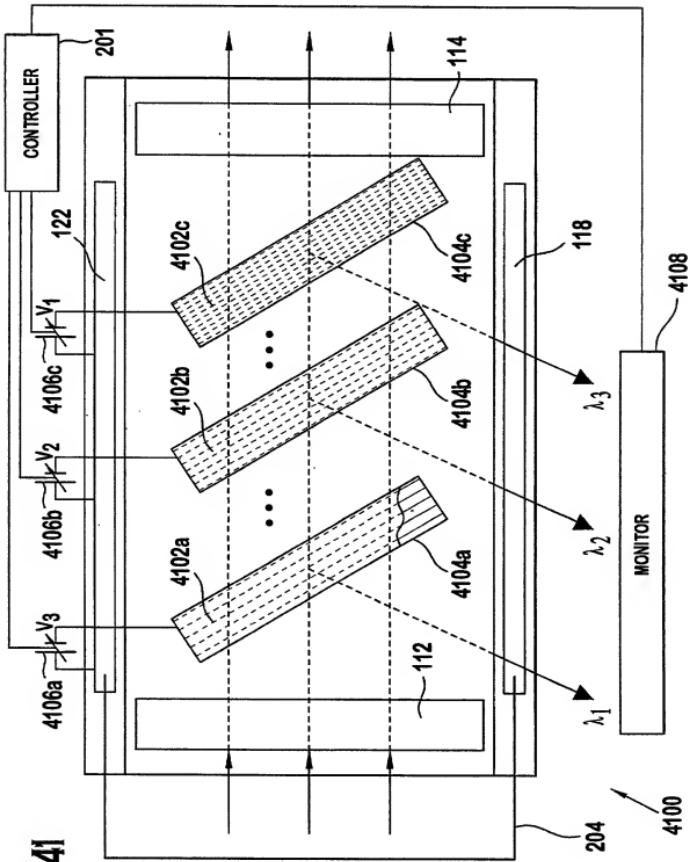


FIG. 42

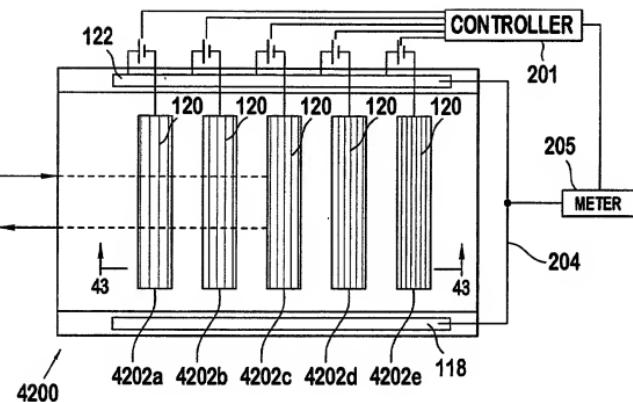


FIG. 43

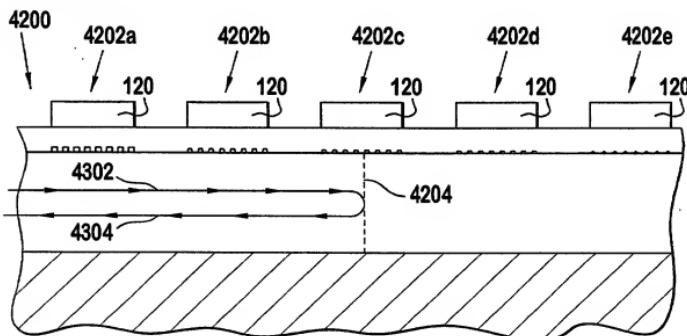


FIG. 44

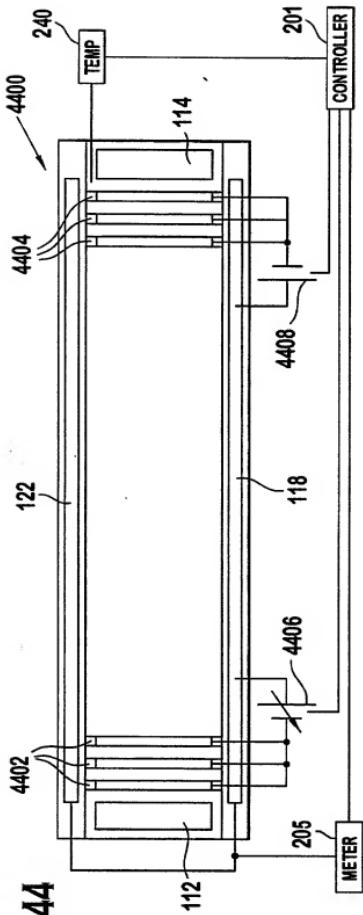


FIG. 45

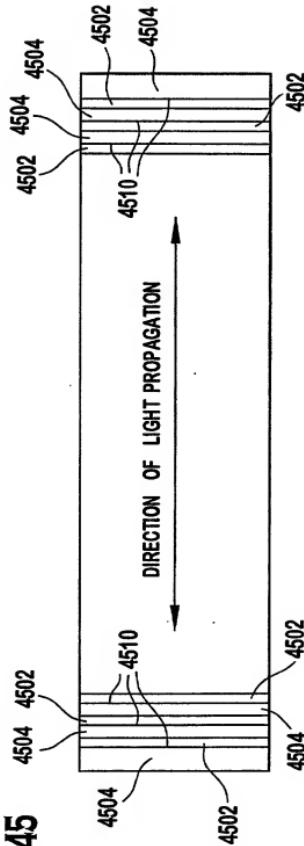
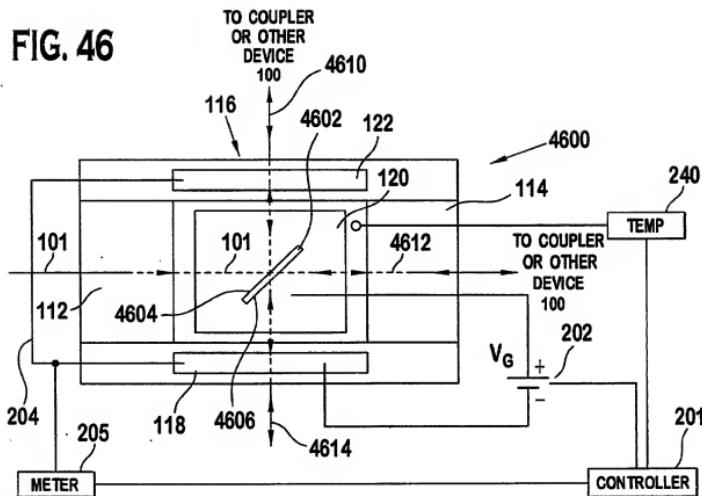


FIG. 46



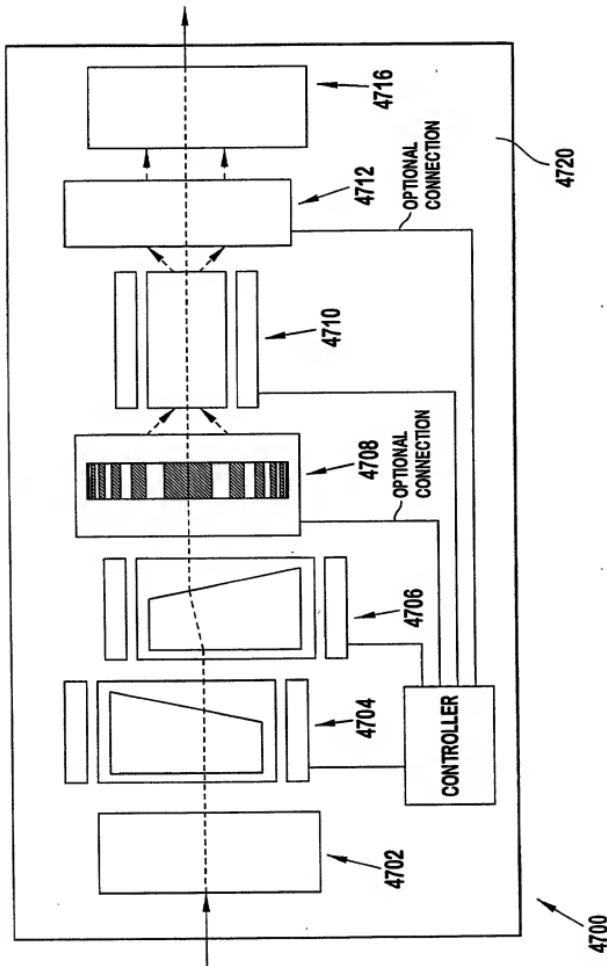
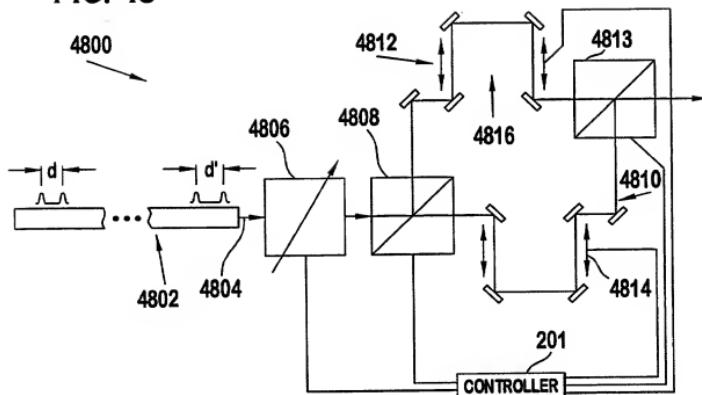


FIG. 47

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FIG. 48



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FIG. 49

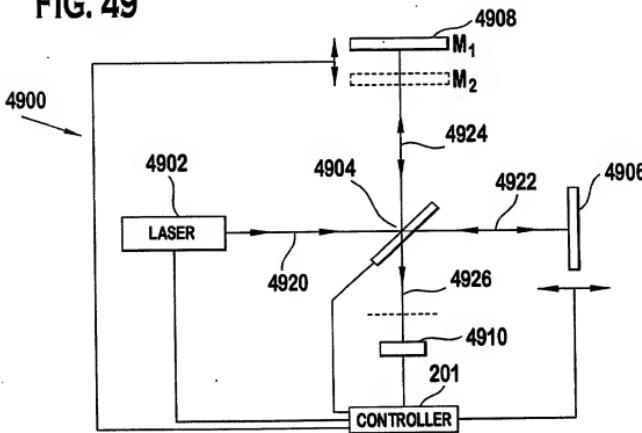


FIG. 50

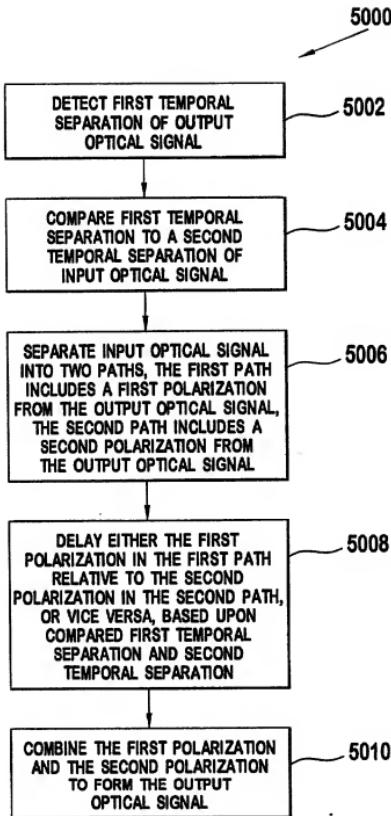


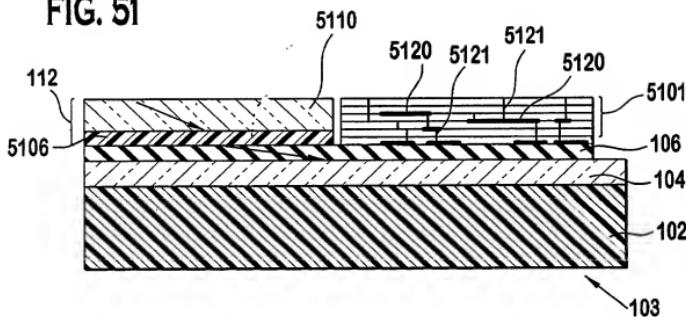
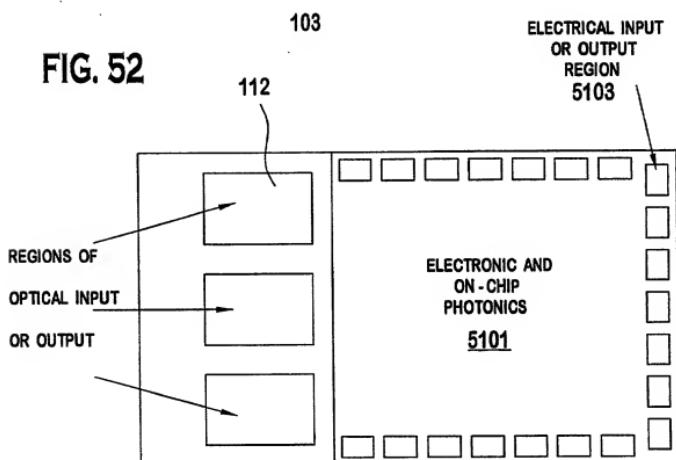
FIG. 51**FIG. 52**

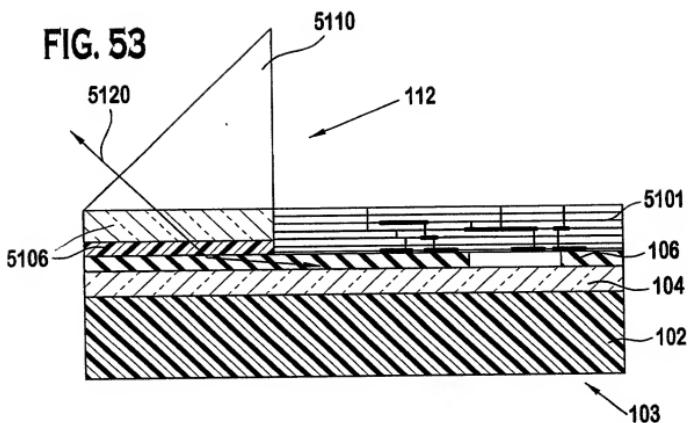
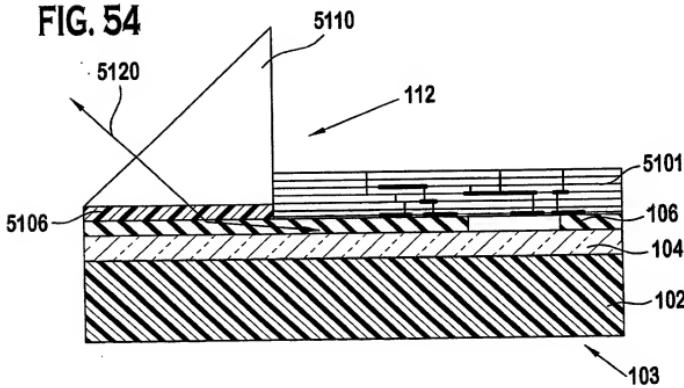
FIG. 53**FIG. 54**

FIG. 55

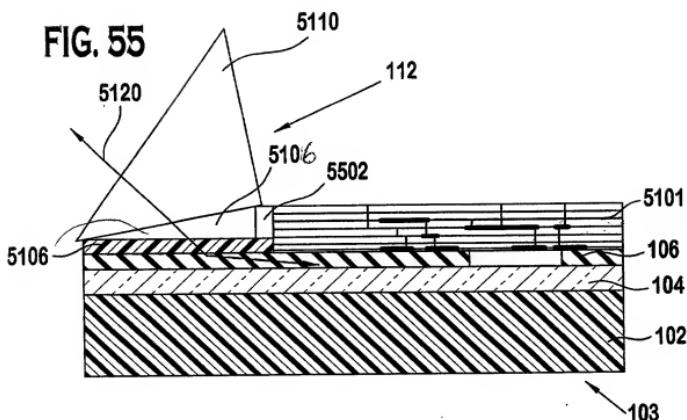


FIG. 56

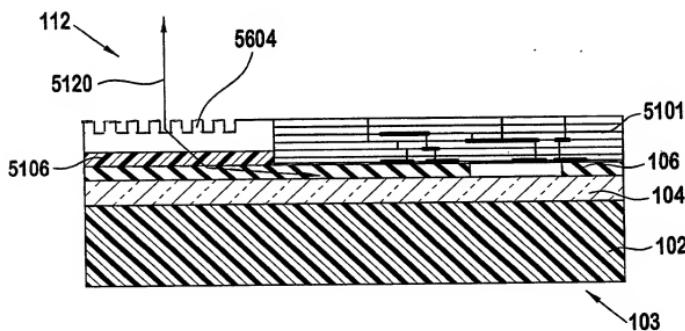


FIG. 57

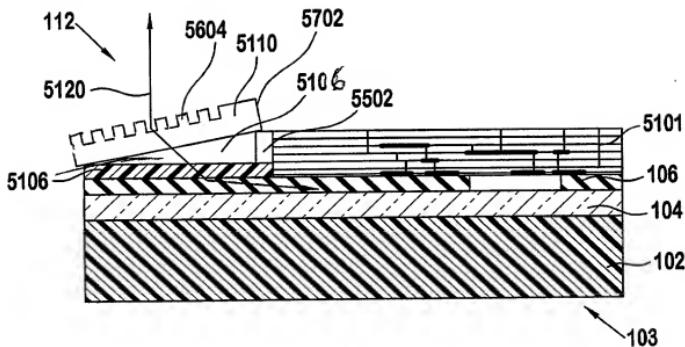
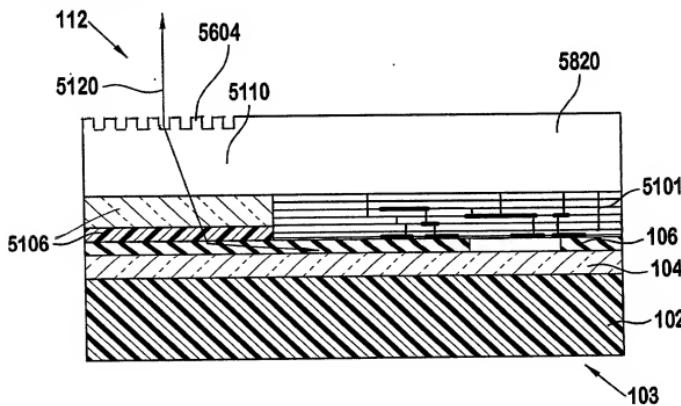


FIG. 58



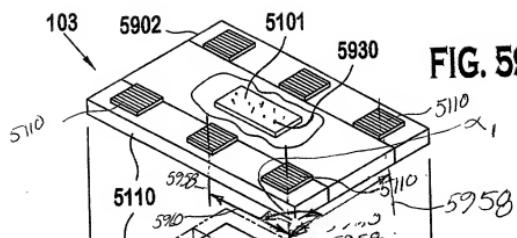


FIG. 59

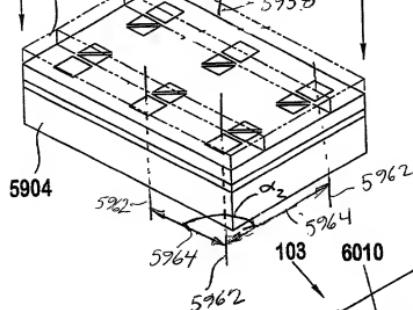


FIG. 60

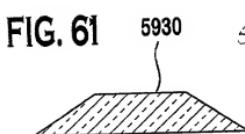
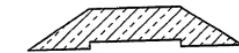
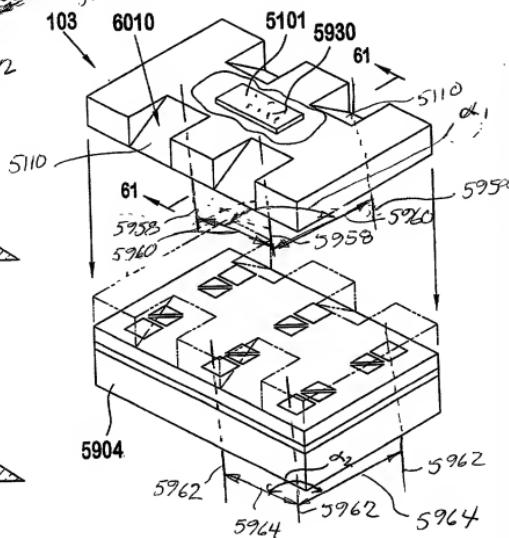


FIG. 61



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FIG. 63A

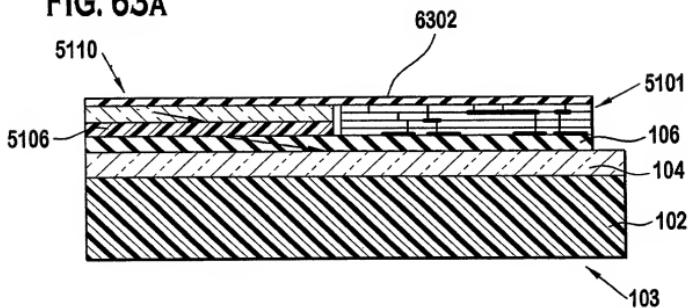


FIG. 63B

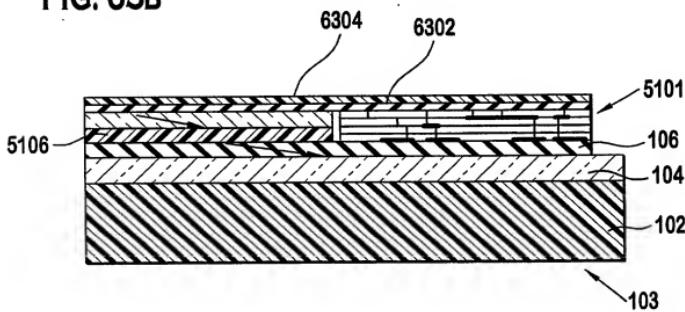


FIG. 63C

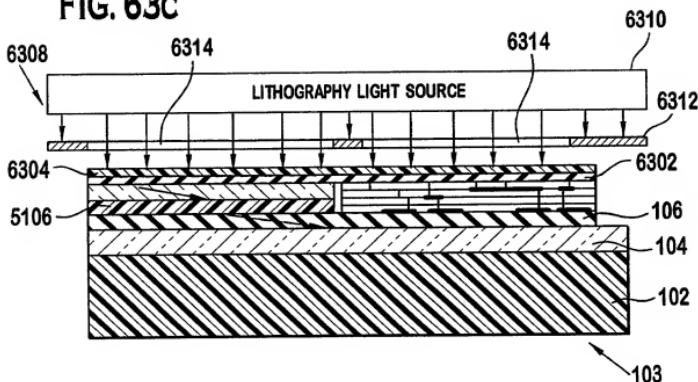


FIG. 63D

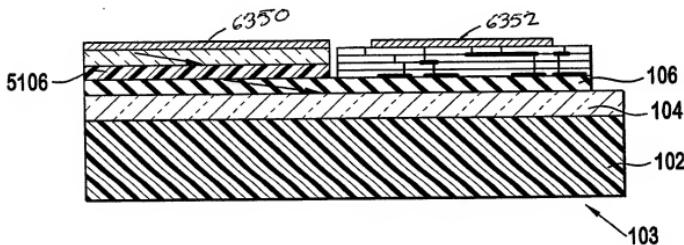


FIG. 64

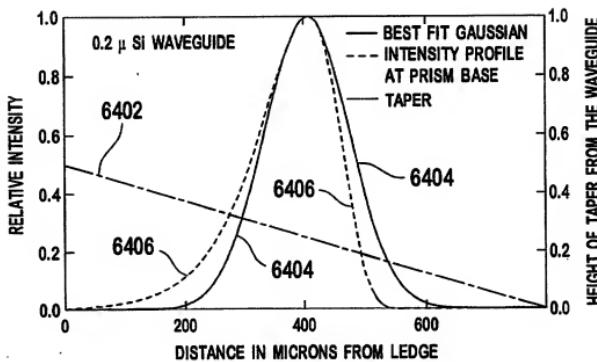
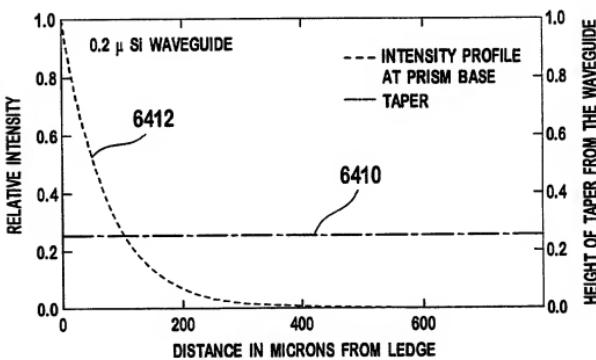


FIG. 65



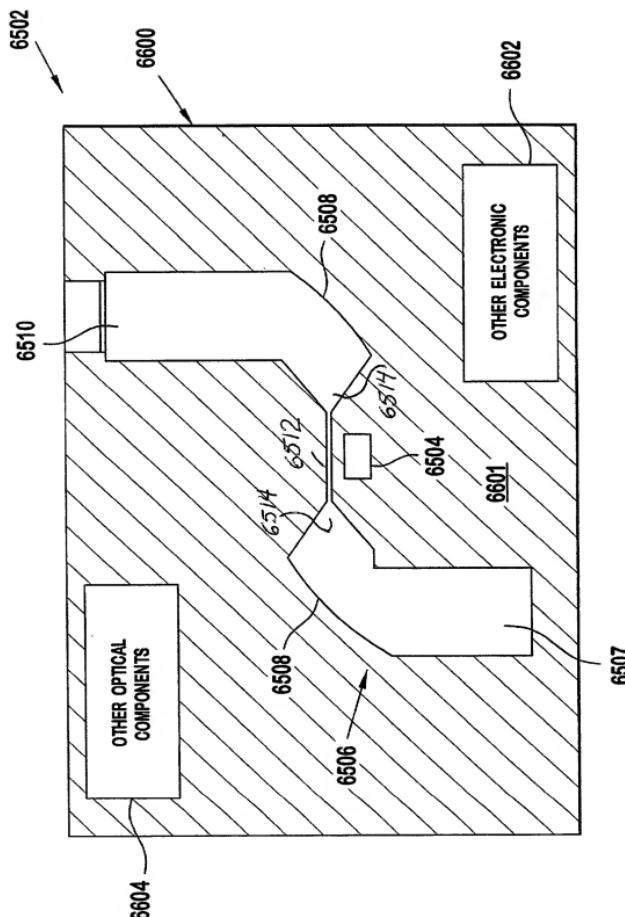
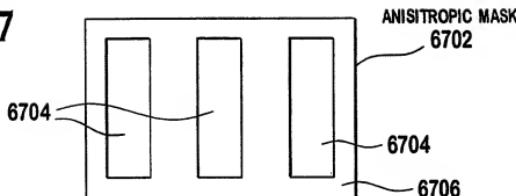
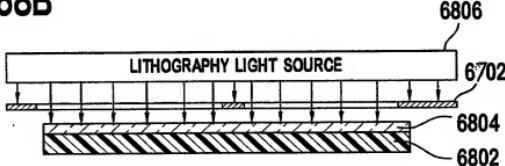
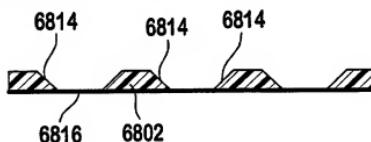


FIG. 66

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FIG. 67**FIG. 68A****FIG. 68B****FIG. 68C****FIG. 68D**

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FIG. 69

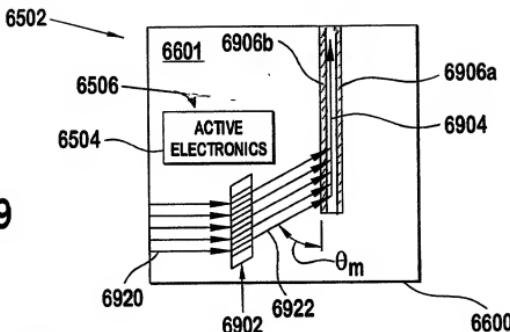


FIG. 70

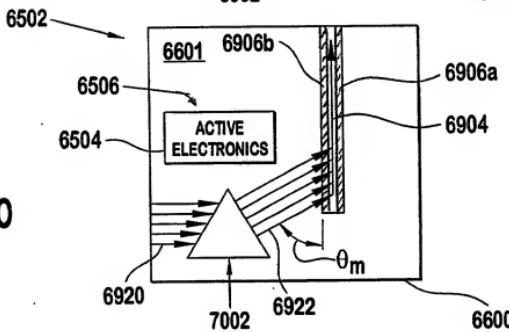
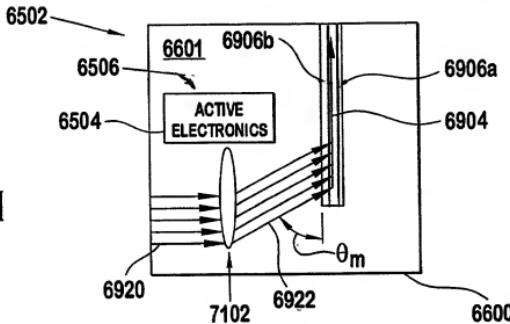


FIG. 71



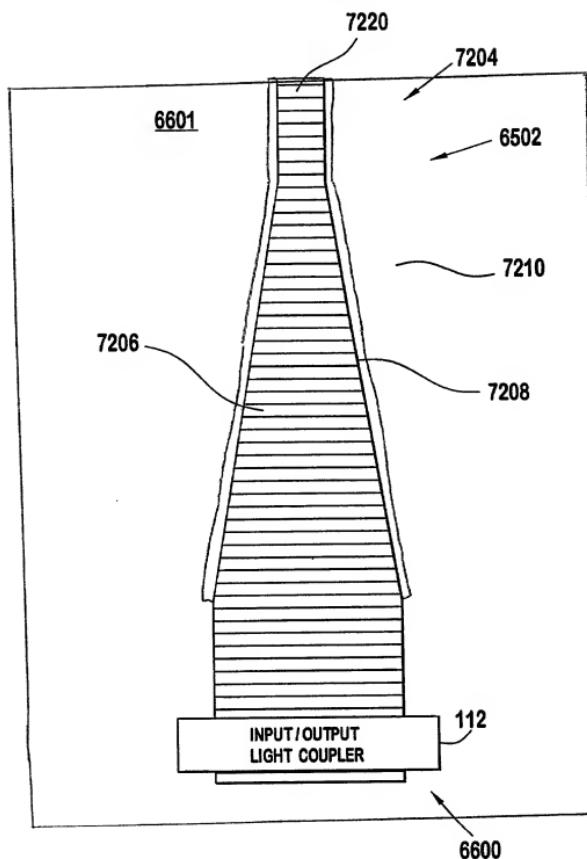


FIG. 72

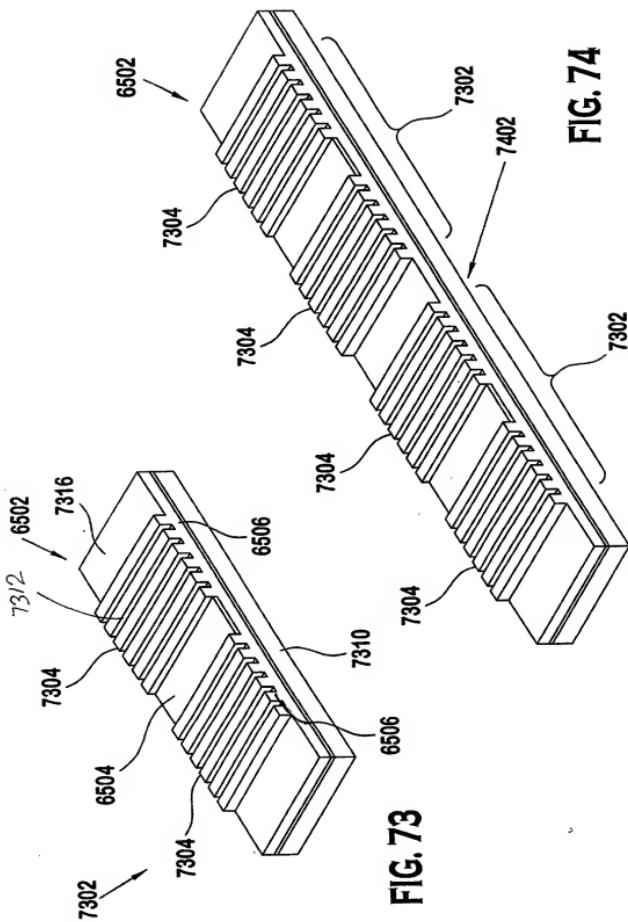
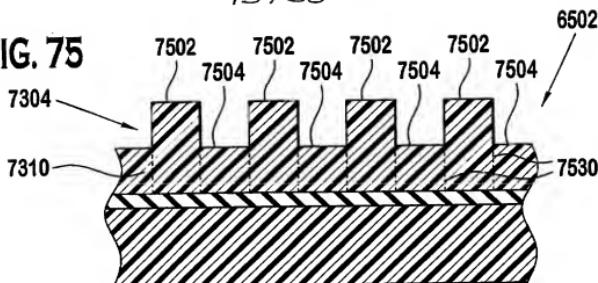
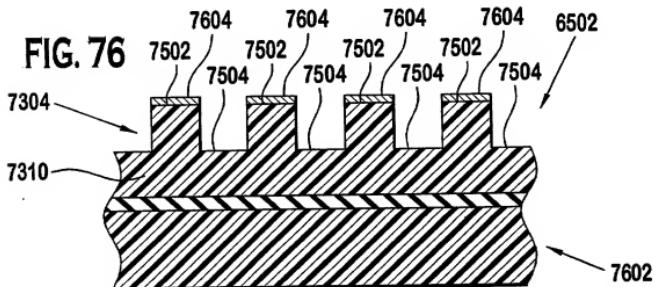
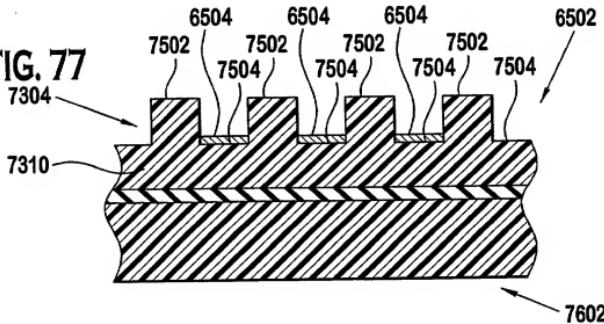


FIG. 75**FIG. 76****FIG. 77**

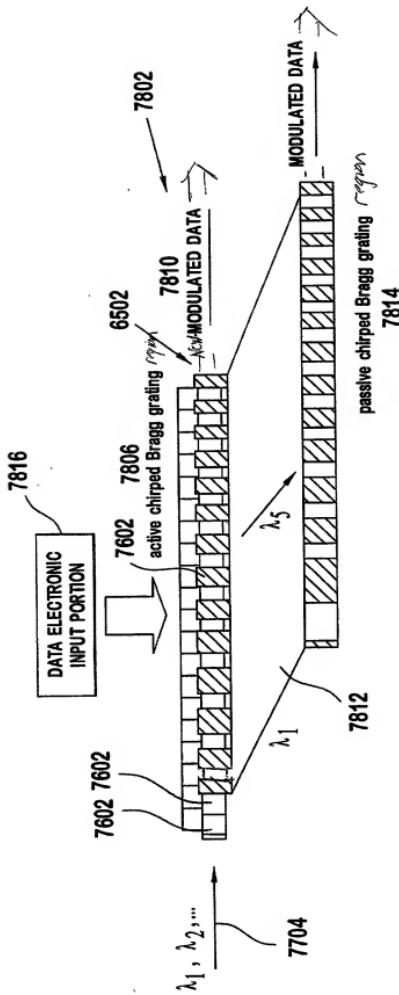


FIG. 78

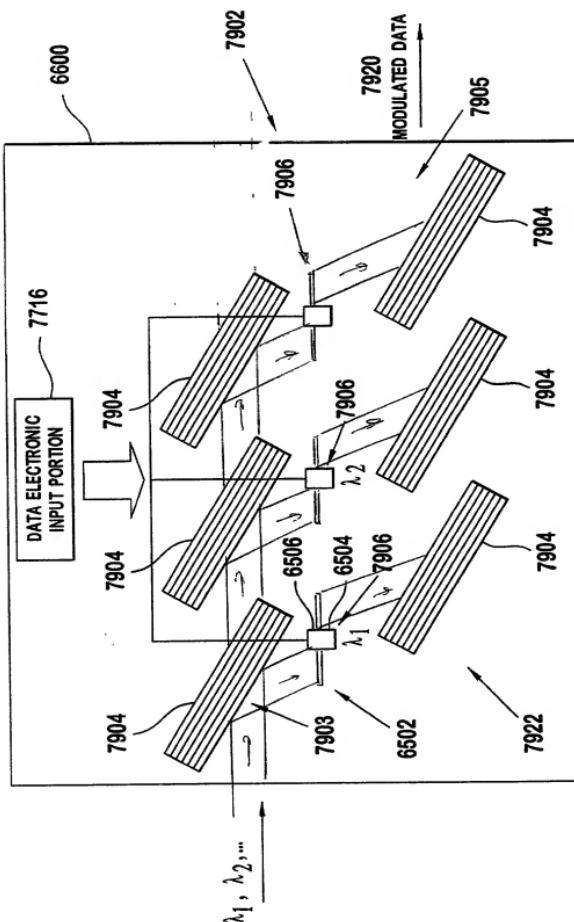


FIG. 79

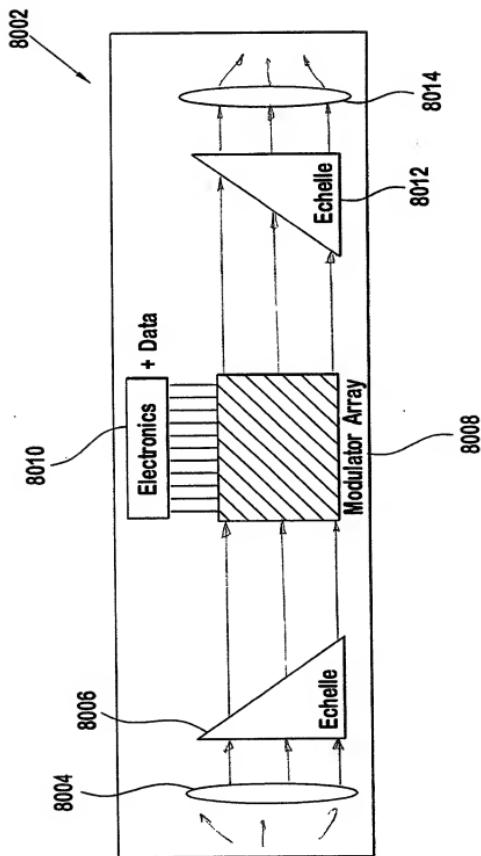
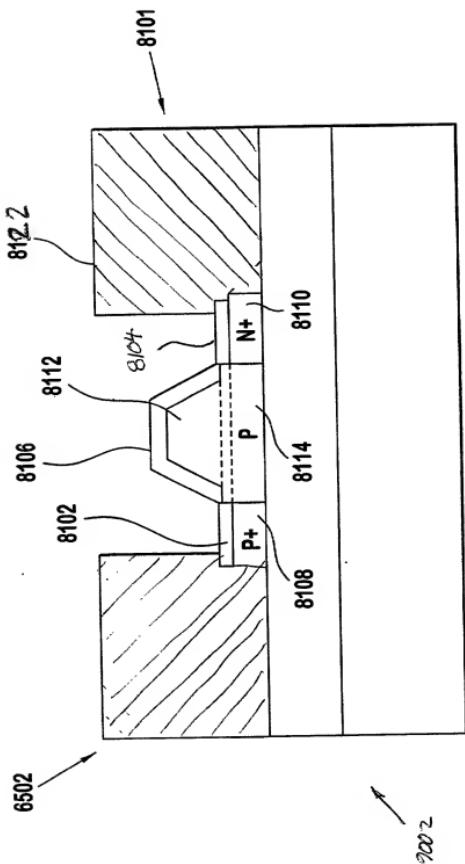


FIG. 80



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FIG.

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FIG. 82

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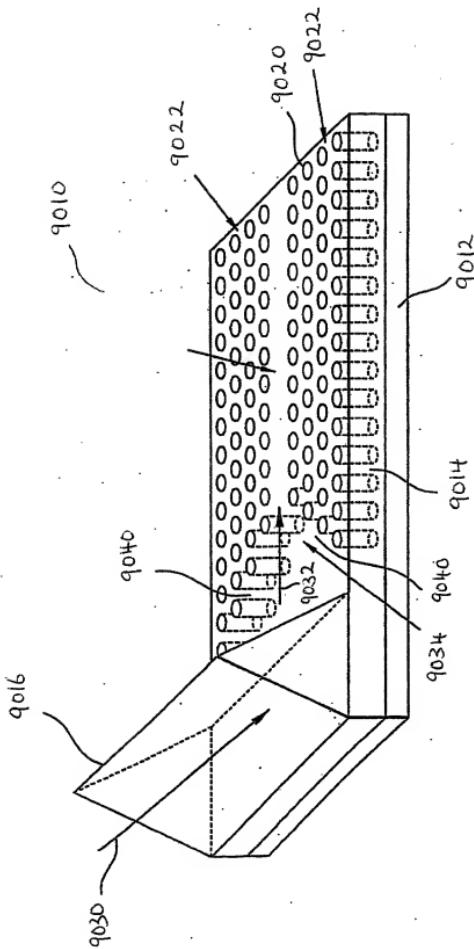
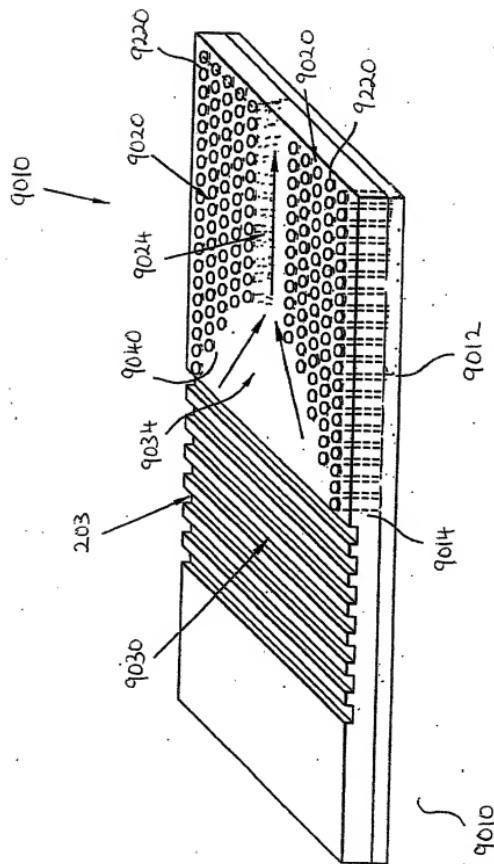


Fig. 83



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FIG. 84

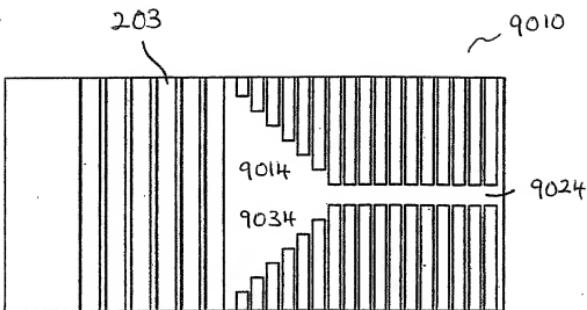


FIG. 85

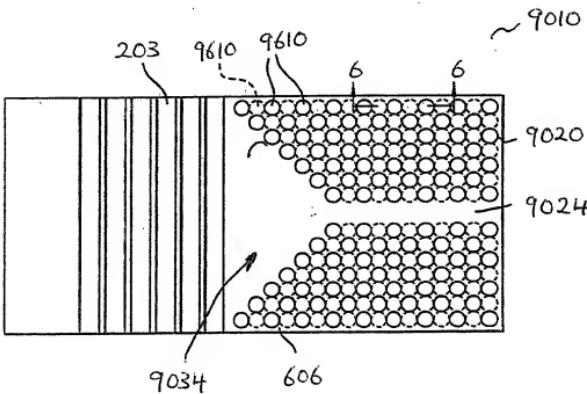
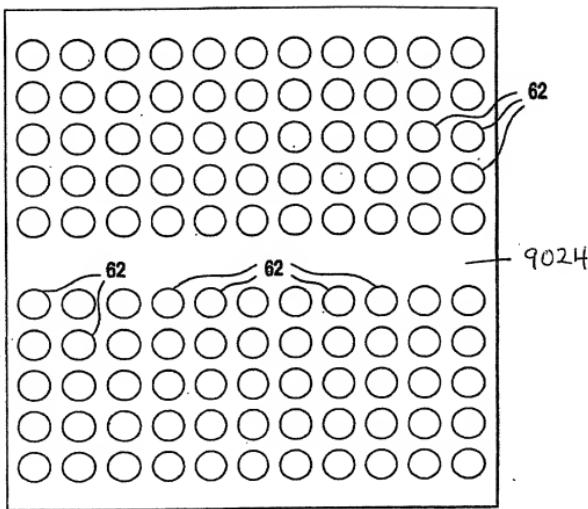


FIG. 86



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FIG. 87

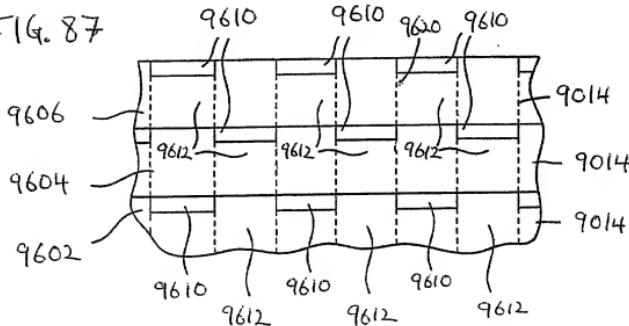
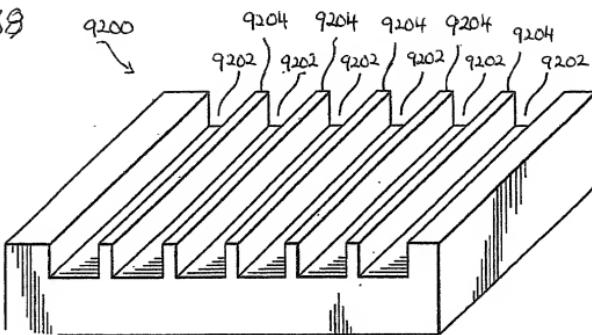


FIG. 88



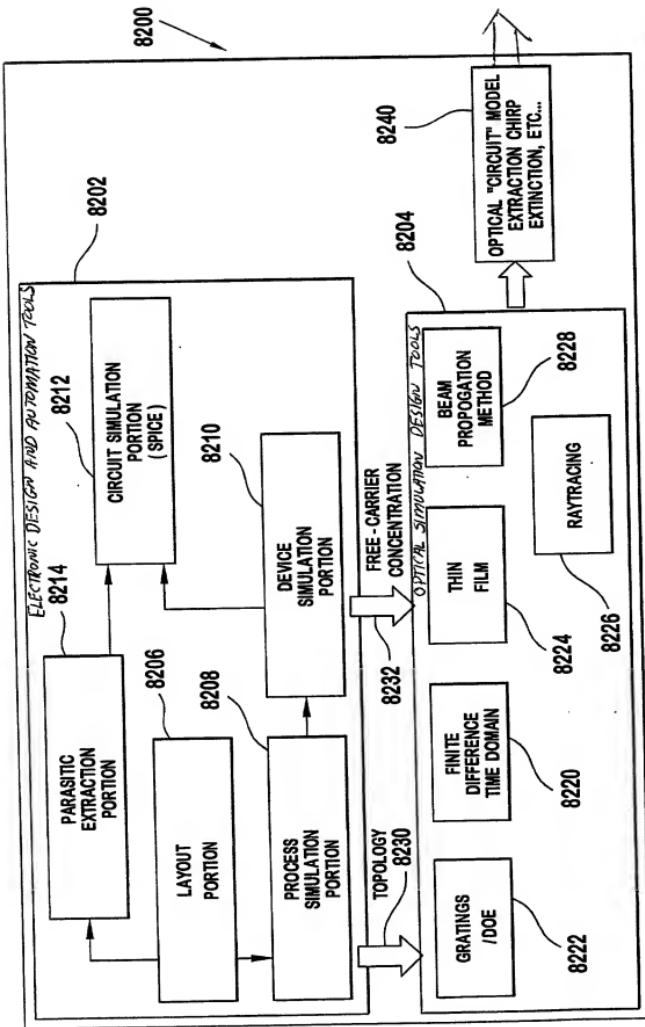


FIG. 8.9

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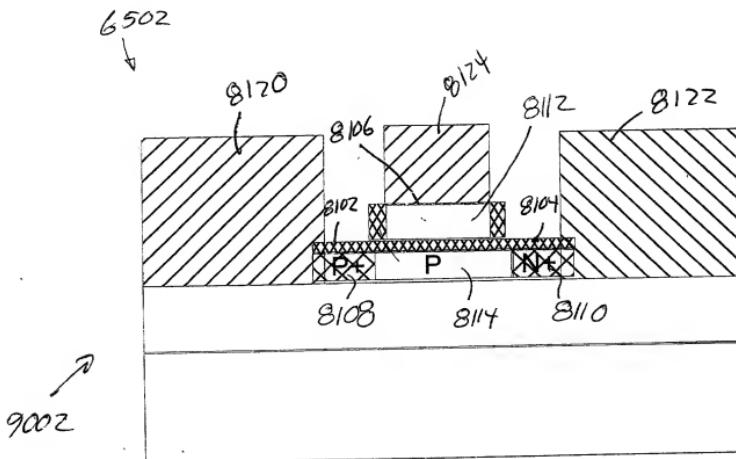


FIG. 90

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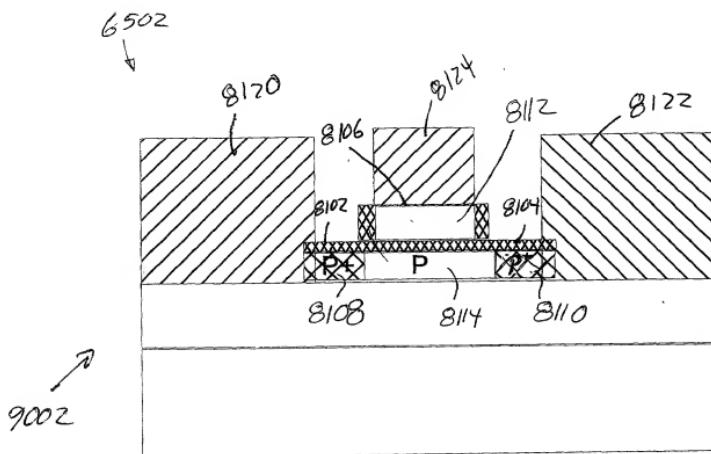


FIG. 91